1	CLAIMS
2	What is claimed is:
3	Claim 1. A method of treating a human tumor in a mammal, wherein said tumor
4	expresses an antigen which specifically binds to a monoclonal antibody or antigen binding
5	fragment thereof which has the identifying characteristics of a monoclonal antibody
6	encoded by a clone deposited with the ATCC as accession number PTA-4890, comprising
7	administering to said mammal said monoclonal antibody in an amount effective to reduce
8	said mammal's tumor burden.
9	
10	Claim 2. The method of claim 1 wherein said antibody is conjugated to a cytotoxic
11	moiety.
12	
13 .	Claim 3. The method of claim 2 wherein said cytotoxic moiety is a radioactive
14	isotope.
15	
16	Claim 4. The method of claim 1 wherein said antibody activates complement.
17	
18	Claim 5. The method of claim 1 wherein said antibody mediates antibody
19	dependent cellular cytotoxicity.
20	
21	Claim 6. The method of claim 1 wherein said antibody is a murine antibody.
22	

1	Claim 7. The m	ethod of claim 1 wherein said antibody is a humanized antibody
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3	Claim 8. The m	ethod of claim 1 wherein said antibody is a chimerized antibody.
4		
5	Claim 9.	An isolated monoclonal antibody or antigen binding fragments
6	thereof encoded by the	clone deposited with the ATCC as accession number PTA-4890.
7		
8	Claim 10.	The isolated antibody or antigen binding fragments of claim 9,
9	wherein said isolated a	ntibody or antigen binding fragments thereof is humanized.
10		
11	Claim 11.	The isolated antibody or antigen binding fragments of claim 9
12	conjugated with a mem	ber selected from the group consisting of cytotoxic moieties,
13	enzymes, radioactive co	ompounds, and hematogenous cells.
14		
15	Claim 12.	The isolated antibody or antigen binding fragments of claim 9,
16	wherein said isolated a	ntibody or antigen binding fragments thereof is a chimerized
17	antibody.	
18		
19	Claim 13.	The isolated antibody or antigen binding fragments of claim 9,
20	wherein said isolated as	ntibody or antigen binding fragments thereof is a murine antibody
21		

1	Claim 14.	The isolated clone deposited with the ATCC as accession number
2	PTA-4890.	
3		
4	Claim 15.	A binding assay to determine presence of cancerous cells in a tissue
5	sample selected from	a human tumor comprising:
6	providing a tis	sue sample from said human tumor;
7	providing an is	solated monoclonal antibody or antigen binding fragment thereof
8	encoded by the clone of	deposited with the ATCC as accession number PTA-4890;
9 .	contacting said	isolated monoclonal antibody or antigen binding fragment thereof
10	with said tissue sample	e; and
11	determining bi	nding of said isolated monoclonal antibody or antigen binding
12	fragment thereof with	said tissue sample;
13	whereby the pr	resence of said cancerous cells in said tissue sample is indicated.
14		
15	Claim 16.	The binding assay of claim 15 wherein the human tumor tissue
16	sample is obtained fro	m a tumor originating in a tissue selected from the group consisting
17	of colon, ovarian, lung	g, and breast tissue.
18		
19	Claim 17.	A process of isolating or screening for cancerous cells in a tissue
20	sample selected from a	a human tumor comprising:

1	providing a tissue sample from a said human tumor;
2	providing an isolated monoclonal antibody or antigen binding fragment thereof
3	encoded by the clone deposited with the ATCC as accession number PTA-4890;
4	contacting said isolated monoclonal antibody or antigen binding fragment thereof
5	with said tissue sample; and
6	determining binding of said isolated monoclonal antibody or antigen binding
7	fragment thereof with said tissue sample;
8	whereby said cancerous cells are isolated by said binding and their presence in said
9	tissue sample is confirmed.
10	
11	Claim 18. The process of claim 17 wherein the human tumor tissue sample is
12	obtained from a tumor originating in a tissue selected from the group consisting of colon,
13	ovarian, lung, and breast tissue.
14	
15	Claim 19. A method of treating a human tumor in a mammal, wherein said tumor
16	expresses an antigen which specifically binds to a monoclonal antibody or antigen binding
17	fragment thereof which has the identifying characteristics of a monoclonal antibody
18	encoded by a clone deposited with the ATCC as accession number PTA-4889, comprising
19	administering to said mammal said monoclonal antibody in an amount effective to reduce

1	said mammai's tumor burden.
2	
3	
4	Claim 20. The method of claim 19 wherein said antibody is conjugated to a
5	cytotoxic moiety.
6	
7	Claim 21. The method of claim 20 wherein said cytotoxic moiety is a radioactive
8	isotope.
9	
10	Claim 22. The method of claim 19 wherein said antibody activates complement.
11	
12	Claim 23. The method of claim 19 wherein said antibody mediates antibody
13	dependent cellular cytotoxicity.
14	
15	Claim 24. The method of claim 19 wherein said antibody is a murine antibody.
16	
17	Claim 25. The method of claim 19 wherein said antibody is a humanized antibody
18	
19	Claim 26. The method of claim 19 wherein said antibody is a chimerized antibody.
20	
21	Claim 27. An isolated monoclonal antibody or antigen binding fragments
22	thereof encoded by the clone deposited with the ATCC as accession number PTA-4889.

1	Claim 20.	The isolated antibody of antigen billong fragments of claim 27,
2	wherein said isolated	antibody or antigen binding fragments thereof is humanized.
3		
4	Claim 29.	The isolated antibody or antigen binding fragments of claim 27
5	conjugated with a me	ember selected from the group consisting of cytotoxic moieties,
6	enzymes, radioactive	e compounds, and hematogenous cells.
7		
8	Claim 30.	The isolated antibody or antigen binding fragments of claim 27,
9	wherein said isolated	antibody or antigen binding fragments thereof is a chimerized
10	antibody.	
11		
12	Claim 31.	The isolated antibody or antigen binding fragments of claim 27,
13	wherein said isolated	antibody or antigen binding fragments thereof is a murine antibody.
14		
15	Claim 32.	The isolated clone deposited with the ATCC as accession number
16	PTA-4889.	
17	•	
18	Claim 33.	A binding assay to determine presence of cancerous cells in a tissue
19	sample selected from	a human tumor comprising:
20	providing a ti	ssue sample from said human tumor;

1	providing an isolated monoclonal antibody or antigen binding fragment thereof
2	encoded by the clone deposited with the ATCC as accession number PTA-4889;
3	contacting said isolated monoclonal antibody or antigen binding fragment thereof
4	with said tissue sample; and
5	determining binding of said isolated monoclonal antibody or antigen binding
6	fragment thereof with said tissue sample;
7	whereby the presence of said cancerous cells in said tissue sample is indicated.
8	
9	Claim 34. The binding assay of claim 33 wherein the human tumor tissue
10	sample is obtained from a tumor originating in a tissue selected from the group consisting
11	of colon, ovarian, lung, and breast tissue.
12	
13	Claim 35. A process of isolating or screening for cancerous cells in a tissue
14	sample selected from a human tumor comprising:
15	providing a tissue sample from a said human tumor;
16	providing an isolated monoclonal antibody or antigen binding fragment thereof
17	encoded by the clone deposited with the ATCC as accession number PTA-4889:
18	contacting said isolated monoclonal antibody or antigen binding fragment thereof
19	with said tissue sample; and

1	determining binding of said isolated monoclonal antibody or antigen binding
2	fragment thereof with said tissue sample;
3	whereby said cancerous cells are isolated by said binding and their presence in said
4	tissue sample is confirmed.
5	
6	Claim 36. The process of claim 35 wherein the human tumor tissue sample is
7	obtained from a tumor originating in a tissue selected from the group consisting of colon,
8	ovarian, lung, and breast tissue.
9	
10	Claim 37. A method of treating a human tumor in a mammal, wherein said tumor
11	expresses an antigen which specifically binds to a monoclonal antibody or antigen binding
. 12	fragment thereof which has the identifying characteristics of a monoclonal antibody
13	encoded by a clone deposited with the ATCC as accession number PTA-5643, comprising
14	administering to said mammal said monoclonal antibody in an amount effective to reduce
15	said mammal's tumor burden.
16	
17	Claim 38. The method of claim 37 wherein said antibody is conjugated to a
18	cytotoxic moiety.
19	
20	Claim 39. The method of claim 38 wherein said cytotoxic moiety is a radioactive
21	isotope.

1	Claim 40. The method of claim 37 wherein said antibody activates complement.
2	
3	Claim 41. The method of claim 37 wherein said antibody mediates antibody
4	dependent cellular cytotoxicity.
5	
6	Claim 42. The method of claim 37 wherein said antibody is a murine antibody.
7	
8	Claim 43. The method of claim 37 wherein said antibody is a humanized antibody
9	
10	Claim 44. The method of claim 37 wherein said antibody is a chimerized antibody.
11	
12	Claim 45. An isolated monoclonal antibody or antigen binding fragments
13	thereof encoded by the clone deposited with the ATCC as accession number PTA-5643.
14	
15	Claim 46. The isolated antibody or antigen binding fragments of claim 45,
16	wherein said isolated antibody or antigen binding fragments thereof is humanized.
17	
18	Claim 47. The isolated antibody or antigen binding fragments of claim 45
19	conjugated with a member selected from the group consisting of cytotoxic moieties,
20	enzymes, radioactive compounds, and hematogenous cells.
21	

1	Claim 48. T	he isolated antibody or antigen binding fragments of claim 45,
2	wherein said isolated an	tibody or antigen binding fragments thereof is a chimerized
3	antibody.	
4		
5	Claim 49. T	he isolated antibody or antigen binding fragments of claim 45,
6	wherein said isolated an	tibody or antigen binding fragments thereof is a murine antibody.
7		
8	Claim 50. T	he isolated clone deposited with the ATCC as accession number
9	PTA-5643.	
10		
11	Claim 51. A	binding assay to determine presence of cancerous cells in a tissue
11	Ciaiii 31.	diffiding assay to determine presence of cancerous cens in a tissue
12	sample selected from a	numan tumor comprising:
13	providing a tissu	e sample from said human tumor;
14	providing an iso	lated monoclonal antibody or antigen binding fragment thereof
15	encoded by the clone de	posited with the ATCC as accession number PTA-5643;
16	contacting said i	solated monoclonal antibody or antigen binding fragment thereof
17	with said tissue sample;	and
18	determining bind	ding of said isolated monoclonal antibody or antigen binding
19	fragment thereof with sa	aid tissue sample;
20	whereby the pres	sence of said cancerous cells in said tissue sample is indicated.

1	Claim 52. The binding assay of claim 51 wherein the human tumor tissue
2	sample is obtained from a tumor originating in a tissue selected from the group consisting
3	of colon, ovarian, lung, and breast tissue.
4	
5	Claim 53. A process of isolating or screening for cancerous cells in a tissue
6	sample selected from a human tumor comprising:
7	providing a tissue sample from a said human tumor;
8	providing an isolated monoclonal antibody or antigen binding fragment thereof
9	encoded by the clone deposited with the ATCC as accession number PTA-5643:
10	contacting said isolated monoclonal antibody or antigen binding fragment thereof
11	with said tissue sample; and
12	determining binding of said isolated monoclonal antibody or antigen binding
13	fragment thereof with said tissue sample;
14	whereby said cancerous cells are isolated by said binding and their presence in said
15	tissue sample is confirmed.
16	
17	Claim 54. The process of claim 53 wherein the human tumor tissue sample is
18	obtained from a tumor originating in a tissue selected from the group consisting of colon,
19	ovarian, lung, and breast tissue
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